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plants a more vigorous growth. The efficacy of spraying cucumbers with Bordeaux mixture to prevent attacks of Downy Mildew (*Plasmopara cubensis*) was demonstrated by an extensive experiment. Incidentally Mr. Stewart records a new host, *Cucumis moschata* (winter crook-neck squash) for this mildew.

C. S. Crandall in Bull. 41 of the Colorado Expt. Station discusses 'Blight and other Plant Diseases,' bringing together in compact form the history of the investigation of blight, culminating with the discovery of the bacterium, *Micrococcus amylovorus* (*Bacillus amylovorus*), by Burrill in 1878-80, and the demonstration that this organism is the active cause, by Arthur in 1884-5.

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#### CURRENT NOTES ON ANTHROPOLOGY.

##### THE ARYAN QUESTION.

IN the *Revue Mensuelle* for February, Dr. Zaborowski, a high authority, sums up the result of his long researches into the origin of the Aryans. At the beginning of the neolithic period, he tells us, the blond, long-skulled energetic Aryans of primitive stock occupied the plains of the center and north of Europe. They extended gradually to the west and the British Isles (peoples of the 'long barrows'), and to the east into Asia (Ossetes of the Caucasus, ancient Persians, etc.). Their migratory movements were accelerated during the neolithic period by the constant pressure of short-skulled Turanian tribes from northern Asia, who by their settlements and intermixture of blood have left profound traces in the present European peoples. It was during the early neolithic period that the division of the primitive Aryan tongue into its numerous dialects and languages took place under complicated conditions of tribal minglings.

##### POLYANDRY AMONG THE SEMITES.

THERE is a frequently quoted passage in Strabo which attributes a condition of the polyandry to the Semitic tribes of southern Arabia. This assertion has remained open to doubt for lack of supporting evidence, although the Israelitic proper name Ahab, 'brother of his father,' and that of the daughter of Sargon, Achat-Abi-sha, 'wife of her father,' indicate such a custom. In the *Proceedings* of the Berlin Anthropological Society for January, Dr. Hugo Winkler gives the translation of a Minæan inscription (Halévy, 504) which leaves no doubt of the correctness of Strabo's statement. From these facts he concludes that polyandry in its most extended form, that in which the communal wife belonged at the same time to both fathers and sons, 'was generally prevalent.'

It is well known that an allied method of marriage still obtains in various parts of the world, and even among the comparatively civilized inhabitants of Tibet.

##### THE 'FOLK-MIND.'

IN the *Beilage* to the *Münchener Allgemeine Zeitung* (No. 76, 1897) the writer, Max Buchner, undertakes a general onslaught upon the works and the teachings of the eminent anthropologist Adolf Bastian. It were scarcely worth while to take serious notice of this feuilletonist, who humorously quotes some of the brain-twisting paragraphs of the 'Altmeister' as specimens of his style; but the main aim of the article is to overthrow the notion of the 'Völkergedanke,' as so often and diffusely presented by Bastian. This is an integral and indispensable part of his anthropological edifice and must not be given up lightly. That each human group (nation, folk) has its own peculiar way of looking at things and taking in ideas cannot be disputed. Upon this way its fate in the world's history largely depends. Such a folk-mind

arises from well-recognized and inflexible causes (environment, heredity, etc.). It is, therefore, a reality, not a closet creation. Herr Buchner has by no means destroyed it in his amusing attack on the great Berlin professor and his many books.

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#### NOTES ON INORGANIC CHEMISTRY.

THE use of coke ovens which permit the recovery of by-products has become established on the continent of Europe, and several plants have been established in this country. In the *Proceedings* of the Alabama Industrial and Scientific Society, Wm. H. Blauvelt gives a description of the Semet-Solvay oven at Ensley, Ala. The coal is coked in retort ovens, the usual change being  $4\frac{1}{2}$  tons. The time of coking is twenty-four hours. The amount of gas given off is eight to ten thousand cubic feet per ton, a part of which is used to heat the retort and for steam to operate the plant, leaving considerable gas available for heating and lighting purposes. The ammonia recovered is 16 to 22 pounds per ton, calculated as sulfate, and the yield of tar from 70 to 80 pounds. The yield of coke (75 per cent.) is ten per cent. higher than that obtained by the old beehive ovens. The cause of this is that the evolved gases, which are more or less completely burned in the beehive, are to some extent decomposed in the retort oven, graphitic carbon being deposited on the coke. In the beehive oven too some of the coke is consumed by the air present. The quality of the coke is pronounced equal to that produced in the old ovens, and some coals are available for coking which cannot be successfully used with the beehive oven.

In the *American Manufacturer*, W. B. Phillips gives the results of the Otto-Hoffman coke ovens at Jefferson Co., Ala. Here, using washed coal, the yield is:

gas, 9,600 feet per ton, of which about 3,000 feet are available after all required on the plant; ammonium sulfate, 23.6 pounds; tar, 90 pounds; coke, 70 per cent. It is an encouraging sign to see the adoption in this country of industrial methods which have for their aim the saving of by-products.

In an article on Aluminum as a reducing agent, in the *Chemiker Zeitung*, Léon Franck gives the following summary: Aluminum decomposes phosphates at high temperature, with evolution of phosphorus; in the presence of silica the liberation of phosphorus is almost quantitative. Aluminum forms several different compounds with phosphorus,  $Al_7P_3$ ,  $Al_5P_3$ ,  $Al_3P$  and  $AlP$ , all of which are decomposed by water with evolution of phosphin,  $PH_3$ . Carbon dioxide, carbon monoxide and carbonates are decomposed by aluminum with liberation of free carbon. Metallic oxides are decomposed giving the metal; sulfates, giving sulfur and sulfides; chlorides, giving the metal. A mixture of aluminum powder and sodium peroxide moistened with water burns spontaneously with a brilliant light. There are many possibilities of the development of the use of aluminum powder along technical lines.

J. L. H.

#### SCIENTIFIC NOTES AND NEWS.

##### VASCO DA GAMA CELEBRATION.

THE festivities at Lisbon in commemoration of the discovery of India by Vasco da Gama began on May 15th. There were illuminations and fêtes both in the city and on the warships of various nations assembled in the harbor. The commemoration was also celebrated in Great Britain at a meeting of the Geographical Society on May 15th, at which addresses were made by the Prince of Wales, Lord George Hamilton, the Portuguese ambassador and by the President of the Society, Sir Clements Markham, who read a paper on 'Vasco da Gama,' in the course of which he said, according to the report in the *London Times*, that they were assembled to commemorate one of the